

CUC-IND-J1ST-A/R4LS-LED-PG - Modular RJ45 PCB connectors



1099281

<https://www.phoenixcontact.com/us/products/1099281>

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab up, Shielded, shield springs, Bicolor LED (green-yellow, green-yellow), number of positions: 8, 10 Gbps, PoE++, THT, Wave, type of packaging: Tray

Your advantages

- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- 360° shielding ensures reliable transmission, even in industrial applications
- With integrated hybrid LEDs as optical status indicators of data transmission
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications

Commercial data

Item number	1099281
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4055626947938
Weight per piece (including packing)	5.77 g
Weight per piece (excluding packing)	5.7 g
Customs tariff number	85366930
Country of origin	CN

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Technical data

Product properties

Product type	Data connector (device side)
Slots	1x1 single-port
Orientation to PCB	90.00 °
Type	THD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking Tab up
Shielding	Shielded, shield springs
Status display	Bicolor LED (green-yellow, green-yellow)
application range	Wave
Type of packaging	Tray
Transmission speed	10 Gbps
PoE/PoE+	PoE++
Power PSE	90 W (Class 8 in accordance with IEEE 802.3bt)
Power PD	71 W (Class 4 in accordance with IEEE 802.3bt)

Electrical properties

Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	1.5 A (IEC 60603-7)
Frequency range	10 Hz ... 500 Hz
Test voltage	1.5 kV DC IEC 60603-7 (Contact - contact) 1.5 kV DC IEC 60603-7 (Contact - shield)
Insulation resistance	> 500 MΩ (IEC 60603-7)
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

Connection data

Connection technology

Connection method	Female
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Signaling

Status display	Bicolor LED (green-yellow, green-yellow)
Status display present	yes

Dimensions

Width	18 mm
Height	17.6 mm
Length	17.1 mm

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Installed height	12.80 mm
Orientation to PCB	90.00 °
Data pin length	3.30 mm

Material specifications

Material Plug contact coating (top layer/selective)	Au (1.27 µm/50 µ")
Material Plug contact coating (intermediate layer)	Ni
Material Solder contact coating (top layer/selective)	Au
Material Solder contact coating (intermediate layer)	Ni
Material Housing	Ni
Material Contact	Copper alloy
Material Housing pin coating (top layer/selective)	Ni
Material Contact carrier	PA (Housing (female/insert))

Cable/line

Shielding	Shielded, shield springs
Halogen-free	yes
Flame resistance	UL 94 V0

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 750 (IEC 60603-7)
Insertion force	< 20 N (IEC 60603-7)
Withdrawal force	< 20 N (IEC 60603-7)

Environmental and real-life conditions

Test specification	
Frequency	10-500 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50.00 m/s ²
Test duration	20.00 s

Test specification	
Specification	IEC60068-2-27
Acceleration	295.00 m/s ²

Ambient conditions	
Degree of protection (when plugged in)	IP20 (IEC 60603-7)
Degree of protection (not plugged in)	IP20 (IEC 60603-7)
Ambient temperature (operation)	-40 °C ... 105 °C
Ambient temperature (storage/transport)	-40 °C ... 105 °C

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Standards and regulations

Flame resistance	UL 94 V0
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Mounting

Mounting type	THT
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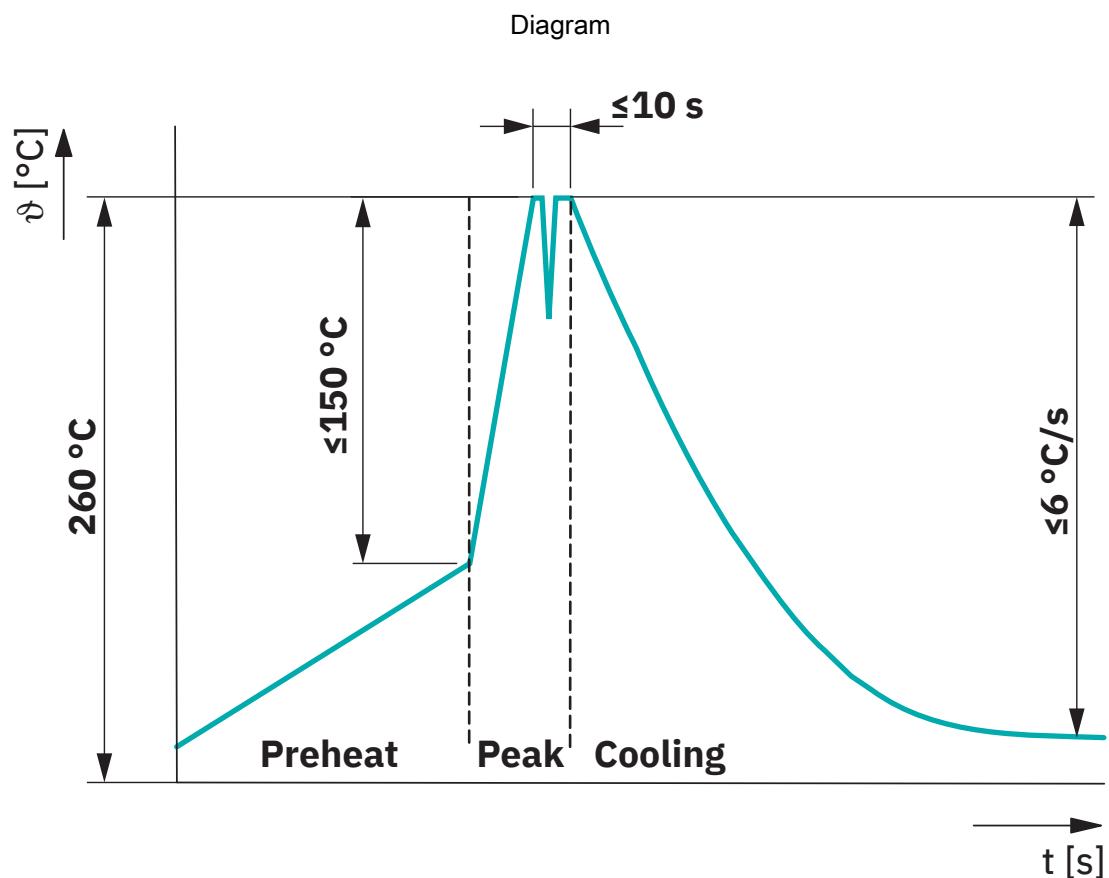
Packaging specifications

Type of packaging	Tray
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Drawings



Classification wave soldering profile

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Approvals

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cUL Recognized

Approval ID: FILE E 335024



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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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